

Thames & Kosmos Specifications for the Motor, Solar Cell and Fuel Cell

MOTOR

Manufactured by Mabuchi. Model: RF-130Ch (1.2 volt version)

See this webpage for motor specs:

http://www.mabuchi-motor.co.jp/cgi-bin/catalog/e_catalog.cgi?CAT_ID=rf_130ch

The gear ratio is 40:1

SOLAR CELL

Voltage: 3V

Current: varies depending on light intensity, but on the order of 100 mA

Standard Efficiency Range: 8% to 16%

FUEL CELL

Rated output W: about 1 watt

Loaded voltage V: about 1.7 volt

Generating voltage V: about 0.95 volt

Generating current maximum A: short circuit current about 2 Ampere

Hydrogen production rate: about 0.027 ml/s

Hydrogen consumption: depends on the load, the car can run about 15 min with full gas tank